Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

- (Previously Presented) An isolated RNA comprising an artificial intron RNA that is released in a cell, thereby silencing the function of a target gene.
- (Previously Presented) The isolated RNA of claim 1, wherein the artificial intron RNA contains a splice donor site a splice acceptor site, a branch site t, and a poly-pyrimidine tract.
- (Previously Presented) The isolated RNA of claim 1, wherein the cell is a mammalian cell.
- (Previously Presented) The artificial intron RNA of claim 2, wherein the splice donor site contains 5'-AGGUAAGU-8'.
- (Previously Presented) The artificial intron RNA of claim 2, wherein the splice acceptor site contains 5'-CCACAGC-3'.
- (Previously Presented) The artificial intron RNA of claim 2, wherein the branch site contains 5'-UACUAAC-3.

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(Previously Presented) An isolated RNA comprising an artificial intron RNA 7

that is released in a eukaryotic cell, thereby silencing the function of a target

gene.

8. (Currently amended) An isolated RNA comprising an artificial intron RNA that

is released in a eukaryotic cell, thereby silencing the function of a target gene.

wherein the artificial intron RNA contains a splice donor site that includes 5'-

AGGUAAGU-3', a splice acceptor site that includes 5'-CCACAGC-3', a branch

site that includes 5'-UACUAAC-3', a poly-pyrimidine tract that includes 5'-

UUCUUUUUUC-3' (SEQ ID NO; 2), or a combination thereof.

9-10. (Canceled)

11. (Original) A cultivated cell comprising the isolated RNA of claim 1.

12-18. (Canceled)

19. (Original) A composition comprising the isolated RNA of claim 1.

20-57. (Canceled)

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